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SYSTEM FOR CONTROLLING ACCESS

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ABSTRACT

PURPOSE: To enhance the secrecy of an information means by enabling the
access right of the information means such as a data base to be
distinctively given to a **temporary** user and a permanent user.

CONSTITUTION: By inspecting secret information inputted by the user based
on its own secret information of each user previously stored in a secret
information storage means with the aid of a pass-word check being a first
checking means, the user is specified. Continuously to that, by checking
whether a present state is within a valid limit stored in a valid limit
storage means or not with the aid of a use **number** **check** being a **second**
checking means, **access** control that **access** permission is always given
to the permanent user and **access** permission within a limit such as the
**number** of times of using or the limit of use is given to the **temporary**
user is realized. Then, the secrecy of the information is also enhanced by
keeping the secret information of the permanent user secret to the
**temporary** user.

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**Artisoft Announces Voice Support in Version 3.0 of LANtastic Network Operating System, LANtastic Voice Adapter**
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Artisoft Announces Voice Support in Version 3.0 of LANtastic Network
Operating System, LANtastic Voice Adapter

Other New Features Include Disk Caching, Easier Installation,
Printing Speed Improvements, Diskless Workstation Support

TUCSON, Ariz., April 5, 1990 -- Version 3.0 of the LANtastic Network
Operating System supports voice chat and voice mail when LANtastic
Voice Adapters are installed on each PC, Artisoft announced today.
With Version 3.0 and the new voice adapter, which is purchased
separately, users can pick up the telephone handset provided with
each adapter and talk with or leave voice messages for others on the
network.

Version 3.0 also offers a textual chat option, pop-up messaging that
informs the user whenever someone wants to textually or verbally chat
or when he has a text or voice message waiting, a disk cache, even
easier menu-driven installation, support for diskless workstations,
printing speed improvements, additional security, more open files per
server, and context sensitive help.

Each $149 IBM-compatible 8-bit LANtastic Voice Adapter will ship with
a telephone handset and cord that connects it to the adapter. Version
3.0 and the LANtastic Voice Adapter are scheduled to ship in May.
End-users who purchase the LANtastic Network Operating System after
April 15 can receive a free V3.0 software upgrade by sending in the
upgrade card enclosed in the package.  V3.0 upgrades for other users
are $50.

"The LANtastic Network Operating System is the first network
operating system to support voice across a local area network.
Sending messages across the network is now faster and much more
convenient, as well as more expressive and personal. If a request is
urgent, the recipient knows it," said C. John Schoof II, Artisoft
founder and president.

LANcache, LANtastic NOS's new disk cache

LANcache, a multi-tasking disk cache, allows users to process data
much more quickly because it is read from RAM rather than disk.
LANcache can read new data even as it writes to disk, and does so in
the background while other CPU operations are performed.
Additionally, users can delay writing to the disk by a user-specified
length of time, allowing the cacher to write larger blocks of data to
disk and thereby increasing network speed.

The efficiency of the caching system can be checked.  A "hit" is
recorded each time the desired data is found in the cache, and a
"miss" is recorded when the disk must be accessed.  "Hit" rates of
more than 90% are common.

## Easier Installation

Getting the network up and running is even easier with the new menu driven installation procedure, which helps the user install the software with a series of questions and explanations of each step. The installer can use default names for the users, servers and workstations.  Default account files, privileges and network resources can be assigned by the program and a batch file is created which allows a user to bring up the network and log on with one command.

## Diskless Workstations Supported

Diskless workstations now can remotely boot off a server instead of needing a floppy drive when the LANtastic Boot ROM Daughter Board is plugged into the expansion bus on the LANtastic 2Mbps adapter in the server.  LANtastic Boot ROM Daughter Boards can be purchased separately from Artisoft for $99.

## Network Printing Improvements

Most LANs can despool to only one printer at a time, which can slow up network printing. Now, while one file is being printed, the server searches through the Queue for any files to be printed by another printer and prints it at the same time. Users also have the flexibiliry of specifving the location of the spool files. Even RAM disk can be specified to speed printing. Additionally, output can easily be directed to parallel and serial printers; the size of the Network Printing buffers can now be increased to enhance performance; and the contents of the entire queue can be deleted with one command, instead of one file at a time.

## Enhanced Security Features

Now the network manager can assign each user access to the system only between certain hours of operation and can specify the date at which an account will close, making it easier to set up **temporary** 'accounts. In order to encourage users to change their passwords more often, an **expiration date** and extension days can be assigned to a password. Also, indirect files can reside in any directory, so if an indirect file is accidentally deleted, only the contents of the indirect file and not the file that it references are lost.

## More Allowable Open Files

Other peer-to-peer LANs are capable of supporting hundreds of nodes, yet because of DOS limitations are only able to open up to 255 files per server, far too few for large networking applications.  LANtastic is fully able to support large networks by allowing them up to 5100 open files per server.

## Context Sensitive Help

Users can now ask for help in a given section of the Net and Net Mgr programs and the help file appears automatically prescrolled to the corresponding section, thus saving the user the trouble of hunting through the Help file to find the pertinent information.

Artisoft offers a full product line of low-cost, award-winning software and hardware for local area network communications. The product line includes the LANtastic Network Operating System ,for Artisoftls AE-2 Ethemet and 2Mbps adapters, as well as other manufacturers NetBIOS-compatible adapters; AI-LANBIOS, an adapter-independent version of the industry standard NetBIOS; and The Network Eye, a remote control LAN utility.

For more information about the Artisoft product line, contact Artisoft Inc., 575 E. River Road, Tucson, AZ 85704. Telephone 602-

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